

341436869

256351.txt
SEQUENCE LISTING

<110> Carter Holt Harvey Limited
 Fletcher Challenge Forests Limited
 Michigan Technological University
 Podila, Gopi Krishna
 Liu, Jun-Jun
 Karnosky, David F

<120> Plants Having Modified Reproductive Activity

<130> 25635 MRB

<140>
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<150> NZ334715
<151> 1999-03-17

<160> 17

<170> PatentIn Ver. 2.1

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 gaagtaaaag gtatggact ctatgtcaagt acattggatt gccttgcg gggcttggat 240
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 caatgcgc当地 ccaaggcaga ttcacaactt gatttcttggc cctcgaatac gagataatgg 420
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<222> (1)..(669)
<223> Pinus radiata MADS box protein mRNA, complete cds

<300>
<301> Jun-Jun, Liu
Podila, G K.
<302> Not applicable
<303> Direct submission
<304> -
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<307> 1997-09-09
<308> Genbank AF023615
<309> 1999-01-26
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cga	cag	gtc	act	ttc	tgc	aag	cgc	cga	aat	ggt	tta	tta	aag	aag	gcg	96	
Arg	Gln	Val	Thr	Phe	Cys	Lys	Arg	Arg	Asn	Gly	Leu	Leu	Lys	Lys	Ala		
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Tyr	Glu	Leu	Ser	Val	Leu	Cys	Asp	Ala	Glu	Val	Ala	Leu	Ile	Val	Phe		
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 85 90 95
 ctc aga caa cag att gac att ttg caa aat gca aat agg cat ttg atg 336
 Leu Arg Gln Gln Ile Asp Ile Leu Gln Asn Ala Asn Arg His Leu Met
 100 105 110
 ggt gac ggg ctt aca gct ttg aac att aag gaa ctc aag caa ctt gag 384
 Gly Asp Gly Leu Thr Ala Leu Asn Ile Lys Glu Leu Lys Gln Leu Glu
 115 120 125
 gtt cga ctt gaa aaa gga atc agc cga gtg cga tcc aaa aag aac gag 432
 Val Arg Leu Glu Lys Gly Ile Ser Arg Val Arg Ser Lys Lys Asn Glu
 130 135 140
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 145 150 155 160
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 Ile Gln Glu Asn Glu Ile Leu Arg Ser Lys Ile Ala Glu Cys Gln Asn
 165 170 175
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 Ser His Asn Thr Asn Met Leu Ser Ala Pro Glu Tyr Asp Ala Leu Pro
 180 185 190
 gca ttc gac tct cga aat ttc cta cat gca aat cta atc gat gcg gcc 624
 Ala Phe Asp Ser Arg Asn Phe Leu His Ala Asn Leu Ile Asp Ala Ala
 195 200 205
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 His His Tyr Ala His Gln Glu Gln Thr Thr Leu Gln Leu Gly
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 35 40 45
 Ser Ser Arg Gly Arg Leu Tyr Glu Phe Ala Asn His Ser Val Lys Arg
 50 55 60
 Thr Ile Glu Arg Tyr Lys Lys Thr Cys Val Asp Asn Asn His Gly Gly

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Gly Asp Gly Leu Thr Ala Leu Asn Ile Lys Glu Leu Lys Gln Leu Glu			
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Ile Gln Glu Asn Glu Ile Leu Arg Ser Lys Ile Ala Glu Cys Gln Asn			
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<223> Arabidopsis thaliana ribonuclease (RNS2) mRNA,
complete cds

<300>
<301> Taylor, C B.
Bariola, P A.
delCardayre, S B.
Raines, R T.
Green, P J.
<302> RNS2: a senescence-associated RNase of Arabidopsis that
diverged from the S-RNases before speciation
<303> Proc. Natl. Acad. Sci. U.S.A.
<304> 90
<305> 11
<306> 5118-5122
<307> 1993
<308> Genbank
<309> 1994-10-30
<313> 1 TO 1012

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Cys Ile Ala Gly Ala Phe Ala Gly Asp Val Ile Glu Leu Asn Arg Ser
15 20 25
cag agg gag ttc gat tat ttc gct cta tct ctt caa tgg cct gga acc 147
Gln Arg Glu Phe Asp Tyr Phe Ala Leu Ser Leu Gln Trp Pro Gly Thr
30 35 40

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aag cat aat gtc acg gat gtc ctt tat caa gct ggc tat gtt gct tcc Lys His Asn Val Thr Asp Val Leu Tyr Gln Ala Gly Tyr Val Ala Ser 160 165 170	531
aac agt gaa aag tat cct cta gga ggt atc gta aca gcc att cag aat Asn Ser Glu Lys Tyr Pro Leu Gly Gly Ile Val Thr Ala Ile Gln Asn 175 180 185	579
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256351.txt

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35 40 45
Thr Arg His Cys Cys Ser Lys Asn Ala Cys Cys Arg Gly Ser Asp Ala
50 55 60
Pro Thr Gln Phe Thr Ile His Gly Leu Trp Pro Asp Tyr Asn Asp Gly
65 70 75 80
Ser Trp Pro Ser Cys Cys Tyr Arg Ser Asp Phe Lys Glu Lys Glu Ile
85 90 95
Ser Thr Leu Met Asp Gly Leu Glu Lys Tyr Trp Pro Ser Leu Ser Cys
100 105 110
Gly Ser Pro Ser Ser Cys Asn Gly Gly Lys Gly Ser Phe Trp Gly His
115 120 125
Glu Trp Glu Lys His Gly Thr Cys Ser Ser Pro Val Phe His Asp Glu
130 135 140
Tyr Asn Tyr Phe Leu Thr Thr Leu Asn Leu Tyr Leu Lys His Asn Val
145 150 155 160
Thr Asp Val Leu Tyr Gln Ala Gly Tyr Val Ala Ser Asn Ser Glu Lys
165 170 175
Tyr Pro Leu Gly Gly Ile Val Thr Ala Ile Gln Asn Ala Phe His Ile
180 185 190
Thr Pro Glu Val Val Cys Lys Arg Asp Ala Ile Asp Glu Ile Arg Ile
195 200 205
Cys Phe Tyr Lys Asp Phe Lys Pro Arg Asp Cys Val Gly Ser Gln Asp
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<220>
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20